

COMMUNICATIONS BULLETIN)

NUMBER

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32D AIR FORCE BASE UNIT
NATIONAL HEADQUARTERS, CIVIL AIR PATROL
BOLLING AIR FORCE BASE
Washington 20, D. C.

RECORDS MANAGEMENT DIVISION
CAP-USAF

- (1) Remove mouthpiece, by removing outer ring, turn counter-clockwise.
- (2) Open bottom lid, push out speaker unit. (Caution.
- (3) Remove leads from speaker. (Paper cone).
- (4) Remove nut from phone jack at top of Chest Unit.
- (5) Remove screw below strap-holder on cable bracket.
- (6) Pull out battery holder, and snap-off connector pins with pliers.
- (7) Solder "12" leads to the studs of the five smallest pins.
- (8) Replace battery holder, speaker unit, leads to speaker, other fittings, such as screws and nuts.

CHANGES IN T-39B CHEST UNIT

- b. The following modification is furnished so SCR-511 chest units may be adapted to batteries obtained in local purchase:
- a. This Headquarters has been unable to obtain replacements for batteries to operate Chest Units T-39B or SCR-511; therefore, it will be the responsibility of the responsible things to obtain same through local channels.
 3. CONVERSION OF SCR-511 TRANSMITTER-RECIEVER.

1. OPERATION OF WALKIE-TALKIE RADIO SETS ON 5500 KILOCYCLES. The Air Force has authorized the Civil Air Patrol full time use of the frequency 5500 kilocycles to be utilized on the SCR-511 or similar equipment employing a power output of 1 watt. Applications for licenses covering sets operating on 2374 kilocycles and 148.16 megacycles.

2. SCR-511 POWER UNITS. Physical insulation of communication

power unit determines.

the SCR-511. In the future, this practice will be discontinued as it not only discharges the battery but the acid spills out, and as a result, the power unit deteriorates.

3. CONVERSION OF SCR-511 TRANSMITTER-RECIEVER.

for batteries to obtain same through local purchase, it will be the responsibility of the responsible things to obtain same through local channels.

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- (9) Attach battery connectors to leads, install batteries, and close cover. (SEE BATTERY CONNECTIONS IN DIAGRAM BELOW)

TUNING THE BC-745 TRANSMITTER-RECEIVER UNIT FOR 2374kc

- (10) Remove fiber cover from tuning unit.
(11) Insert 2374 kc crystal in socket marked "TRANS".
(12) Insert 2829 kc crystal in socket marked "REC".
(13) Insert tuning unit into transmitter; adjust "RF" and "ANTENNA" adjustments for maximum reception.
(14) Remove tuning unit and install fiber cover.
(15) Insert completed tuning unit into transmitter, and close bottom.
(16) The SCR-511 is now ready for operation.

SUPPLIES REQUIRED FOR CONVERSION

5 each 12" lengths of hookup wire
2 each 67½ volt batteries, Burgess XX45 or equal
1 each 1½ volt battery, Burgess 2F or equal
1 set connectors to fit above batteries
2 each B/T cut crystals, one 2374 kc, one 2829kc.

BATTERY CONNECTIONS IN T-39-B

0 - 67½	0 - 1½	0 - 1½ & -67½
one 67½ volt battery here	0 - 67½	2nd 67½ volt battery here

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BY COMMAND OF MAJOR GENERAL BEAU:

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C O P Y